SEQUENCE LISTING

<110> Keietsu ABE et al.

<120> METHOD FOR THE PRODUCTION OF USEFUL PRODUCTS BY MEANS OF DECOMPOSITION OF PLASTICS BY MICROORGANISMS

<130> 4600-0112PUS1

<140> US 10/532,423
<141> 2005-04-22

<150> PCT/JP03/11861
<151> 2003-09-17

<150> JP 2002-30884
<151> 2002-10-23

<150> JP 2002-371246
<151> 2002-12-24

<160> 46

<170> PatentIn version 3.1

<210> 1
<211> 497
<212> DNA
<213> Aspergillus oryzae

<220>
<221> CDS
<222> (1)..(453)

<400> 1

```
atg cag ttc tcc gtc gcc gct gtt ctt gct ctg gct act gcc gtt gcc       48
Met Gln Phe Ser Val Ala Ala Val Leu Ala Leu Ala Thr Ala Val Ala
1               5                   10                  15

gct ctt cct cct gcc tct ggc act ggc gct ggc cag caa gtc gga cac       96
Ala Leu Pro Pro Ala Ser Gly Thr Gly Ala Gly Gln Gln Val Gly His
            20                  25                  30

tcc aag aac gac ttc cct ctc cct aag gag ttg acc acc aag cag gcc      144
Ser Lys Asn Asp Phe Pro Leu Pro Lys Glu Leu Thr Thr Lys Gln Ala
        35                  40                  45

gcc gac aag tgt ggt gac cag gct cag ctc acc tgc tgc aac aag acc      192
Ala Asp Lys Cys Gly Asp Gln Ala Gln Leu Thr Cys Cys Asn Lys Thr
    50                  55                  60

gtc aag acc ggt gac ttc acc cag gtt gag gag ggt ctc ctt gct ggc      240
Val Lys Thr Gly Asp Phe Thr Gln Val Glu Glu Gly Leu Leu Ala Gly
65                  70                  75                  80

ctc ctc tcc aac ctc ctc ggt gcc gga cag ggc tcc cag ggt ctt ggt      288
Leu Leu Ser Asn Leu Leu Gly Ala Gly Gln Gly Ser Gln Gly Leu Gly
```

```
                85                  90                  95

ctc ttg gat gag tgc acc aac atc cct gtt atc ccc atc atc tcc atc      336
Leu Leu Asp Glu Cys Thr Asn Ile Pro Val Ile Pro Ile Ile Ser Ile
            100                 105                 110

gcc tct cct cag gag aag tgc aag cag ccc atc tct tgc tgc cag aac      384
Ala Ser Pro Gln Glu Lys Cys Lys Gln Pro Ile Ser Cys Cys Gln Asn
        115                 120                 125

acc aag tcc agc gcc gat ggc gac ctc gtc ggt att ggt ctt cct tgc      432
Thr Lys Ser Ser Ala Asp Gly Asp Leu Val Gly Ile Gly Leu Pro Cys
    130                 135                 140

atc gct ctc ggc tct ctc ctg taagcgattg cattcgcgaa aatggtagct        483
Ile Ala Leu Gly Ser Leu Leu
145                 150

cgaggagcac ggga                                                    497



<210>  2
<211>  438
<212>  DNA
<213>  Aspergillus oryzae

<220>
<221>  CDS
<222>  (1)..(438)

<400>  2
atg aag ttc ttc gct gtc gct gct ctc ttc gcc acc gcc gcc atg gcc       48
Met Lys Phe Phe Ala Val Ala Ala Leu Phe Ala Thr Ala Ala Met Ala
1               5                   10                  15

gct cct ggt tcc gct cct gtg ccc ggt gct gct gct gct gcc ggc aac       96
Ala Pro Gly Ser Ala Pro Val Pro Gly Ala Ala Ala Ala Ala Gly Asn
            20                  25                  30

ggt aac gcc ccg gtt atc aac cag acc cag cag aag gcc ttc aca gac      144
Gly Asn Ala Pro Val Ile Asn Gln Thr Gln Gln Lys Ala Phe Thr Asp
        35                  40                  45

gct tgc agt gct aag ggc aac cac ccc gtc tgc tgc gac cag atc gac      192
Ala Cys Ser Ala Lys Gly Asn His Pro Val Cys Cys Asp Gln Ile Asp
    50                  55                  60

acc tcc aag acc aca act gtg aac gag gga ctt ctc ggt ggc ctc ctc      240
Thr Ser Lys Thr Thr Thr Val Asn Glu Gly Leu Leu Gly Gly Leu Leu
65                  70                  75                  80

ggt gag ggc ctg ggt ggc gtt ctt aac aac ctt gtt ggt ggc gag cct      288
Gly Glu Gly Leu Gly Gly Val Leu Asn Asn Leu Val Gly Gly Glu Pro
                85                  90                  95

ggc gct tgc agt ggt ctt gtt tct gcc ctc aac aag caa tgc cag acc      336
```

```
Gly Ala Cys Ser Gly Leu Val Ser Ala Leu Asn Lys Gln Cys Gln Thr
            100                 105                 110

agc atc ggt tgc tgc cag cag aac gcc aag ggc gac aac tac cag agc      384
Ser Ile Gly Cys Cys Gln Gln Asn Ala Lys Gly Asp Asn Tyr Gln Ser
        115                 120                 125

ggc ctc ctc aac ctc aac ctc cag gct cct tgc ctt ctc agc aat ggt      432
Gly Leu Leu Asn Leu Asn Leu Gln Ala Pro Cys Leu Leu Ser Asn Gly
    130                 135                 140

ctg taa                                                             438
Leu
145
```

<210> 3
<211> 318
<212> DNA
<213> Aspergillus oryzae

<220>
<221> CDS
<222> (1)..(318)

<400> 3

```
atg aag gtt tct acc ttg ttg acc acc ctt tgc gta ctg ggt gtt gct       48
Met Lys Val Ser Thr Leu Leu Thr Thr Leu Cys Val Leu Gly Val Ala
1               5                   10                  15

agt tcg gcg gat cca acc gca caa tgc gat aac gga ccc gtt caa tgc       96
Ser Ser Ala Asp Pro Thr Ala Gln Cys Asp Asn Gly Pro Val Gln Cys
            20                  25                  30

tgc gca acg gtc ggt tta ccg act gac agt gta gtc tca cct tta ctt      144
Cys Ala Thr Val Gly Leu Pro Thr Asp Ser Val Val Ser Pro Leu Leu
        35                  40                  45

ggc ttg ctc gga gta gtt gtt cca gac atg agc act cca gtt gga ttg      192
Gly Leu Leu Gly Val Val Val Pro Asp Met Ser Thr Pro Val Gly Leu
    50                  55                  60

acc tgt aat cct att gtc cag ggt gga tct tgc cca ggc cac ccc gtt      240
Thr Cys Asn Pro Ile Val Gln Gly Gly Ser Cys Pro Gly His Pro Val
65                  70                  75                  80

tgc tgt aca gga aat gta ggc cat gct tct gcg aca cat tgt tcc agc      288
Cys Cys Thr Gly Asn Val Gly His Ala Ser Ala Thr His Cys Ser Ser
                85                  90                  95

tac cta atg tcc atc gga aat gat tac tga                              318
Tyr Leu Met Ser Ile Gly Asn Asp Tyr
            100                 105
```

<210> 4
<211> 675

<212> DNA
<213> Aspergillus oryzae

<220>
<221> CDS
<222> (1)..(675)

<400> 4

```
atg gtg atg ctc cgc tcc ctc ctc gtc tct gcc ctg gct gct ctg gca       48
Met Val Met Leu Arg Ser Leu Leu Val Ser Ala Leu Ala Ala Leu Ala
1               5                   10                  15

gca ggc agc ccc atc gct gag cca gcg gac cag tca ctg gaa gcc aga       96
Ala Gly Ser Pro Ile Ala Glu Pro Ala Asp Gln Ser Leu Glu Ala Arg
            20                  25                  30

cag ctc ggg tct tcc aat gac ctc acc aac ggt gca tgc aag gat gtg      144
Gln Leu Gly Ser Ser Asn Asp Leu Thr Asn Gly Ala Cys Lys Asp Val
        35                  40                  45

acc ctc att ttc gct cga ggc tcc acc gaa atg ggc aac atg ggc act      192
Thr Leu Ile Phe Ala Arg Gly Ser Thr Glu Met Gly Asn Met Gly Thr
    50                  55                  60

gtc atc gga ccc cct ctc tgc tcg tcg ctg aag agc aag ctc ggt gcc      240
Val Ile Gly Pro Pro Leu Cys Ser Ser Leu Lys Ser Lys Leu Gly Ala
65                  70                  75                  80

gac aag gtc gct tgc caa ggt gtg ggt ggc ttg tac aca gga gga ttg      288
Asp Lys Val Ala Cys Gln Gly Val Gly Gly Leu Tyr Thr Gly Gly Leu
                85                  90                  95

atg caa aat gct ctc cct cag aac acc gac ccc ggc gct atc tcc acc      336
Met Gln Asn Ala Leu Pro Gln Asn Thr Asp Pro Gly Ala Ile Ser Thr
            100                 105                 110

gcg aag tcg ctc ttt gaa caa gcc agc acc aag tgc cct aac acc cag      384
Ala Lys Ser Leu Phe Glu Gln Ala Ser Thr Lys Cys Pro Asn Thr Gln
        115                 120                 125

atc gtg gcc ggt gga tac agt caa ggt agt gcc gtc atc gac aac gcc      432
Ile Val Ala Gly Gly Tyr Ser Gln Gly Ser Ala Val Ile Asp Asn Ala
    130                 135                 140

gtc caa caa ctc tcc gcc gaa gtc aag gac aag gtc aag ggt gtt gtt      480
Val Gln Gln Leu Ser Ala Glu Val Lys Asp Lys Val Lys Gly Val Val
145                 150                 155                 160

ttc ttc ggc ttc act cgt aac ctc cag gac aag ggt cag atc ccc aac      528
Phe Phe Gly Phe Thr Arg Asn Leu Gln Asp Lys Gly Gln Ile Pro Asn
                165                 170                 175

tac ccc aag gac aat gtt aag gtc ttt tgt gcg atg gga gat ctt gtc      576
Tyr Pro Lys Asp Asn Val Lys Val Phe Cys Ala Met Gly Asp Leu Val
            180                 185                 190

tgc gat ggc acg ctt att gtc acc gcc gcc cat ttg aca tat acc att      624
```

```
Cys Asp Gly Thr Leu Ile Val Thr Ala Ala His Leu Thr Tyr Thr Ile
        195                 200                 205

aat gcg ccg gag gct gcc tct ttc ctt gcg tcg aag gtt cag tca gct      672
Asn Ala Pro Glu Ala Ala Ser Phe Leu Ala Ser Lys Val Gln Ser Ala
    210                 215                 220

tag                                                                  675


<210>  5
<211>  780
<212>  DNA
<213>  Aspergillus oryzae

<220>
<221>  CDS
<222>  (1)..(780)

<400>  5
atg aat ctc cgc ctg ttg acc ctt gct ctc gct gct gtg gcg gct gca       48
Met Asn Leu Arg Leu Leu Thr Leu Ala Leu Ala Ala Val Ala Ala Ala
1               5                   10                  15

agt cca gta gat atc cag gaa cgc cag ctc tcc ggc gga aac gag ctg       96
Ser Pro Val Asp Ile Gln Glu Arg Gln Leu Ser Gly Gly Asn Glu Leu
            20                  25                  30

cga gat ggc tct tgc aag ccg atc acc ttc atc ttt gcc cgc gct tcc      144
Arg Asp Gly Ser Cys Lys Pro Ile Thr Phe Ile Phe Ala Arg Ala Ser
        35                  40                  45

aca gag cca gga ctt ttg ggt ata tca act ggc cct gca gtc tgc aat      192
Thr Glu Pro Gly Leu Leu Gly Ile Ser Thr Gly Pro Ala Val Cys Asn
    50                  55                  60

ggc ttg aag atg gcc aaa gcg ggc caa gta gct tgc cag ggt gtt gga      240
Gly Leu Lys Met Ala Lys Ala Gly Gln Val Ala Cys Gln Gly Val Gly
65                  70                  75                  80

ccc aag tac acg gca gac ctc gca tca aat gct ttg ccc gag aac acg      288
Pro Lys Tyr Thr Ala Asp Leu Ala Ser Asn Ala Leu Pro Glu Asn Thr
                85                  90                  95

tcc cca gct gcc atc caa gag gca caa gac ctg ttc cag cag gcc gtc      336
Ser Pro Ala Ala Ile Gln Glu Ala Gln Asp Leu Phe Gln Gln Ala Val
            100                 105                 110

acc aaa tgc cct gac acc caa att gtt gcc ggt ggt tat agc caa ggc      384
Thr Lys Cys Pro Asp Thr Gln Ile Val Ala Gly Gly Tyr Ser Gln Gly
        115                 120                 125

aca gcc gtg atg gat gac tcc atc aag cgt cta cca gac aac gtg aaa      432
Thr Ala Val Met Asp Asp Ser Ile Lys Arg Leu Pro Asp Asn Val Lys
    130                 135                 140

gag aag atc aag ggt gtc gtg ctc ttc ggc tac acc cgc aac gca cag      480
```

```
Glu Lys Ile Lys Gly Val Val Leu Phe Gly Tyr Thr Arg Asn Ala Gln
145                 150                 155                 160

gaa cac ggt cag att gcc aac ttt ccc aag gac aag gtc aag gtc tac      528
Glu His Gly Gln Ile Ala Asn Phe Pro Lys Asp Lys Val Lys Val Tyr
                165                 170                 175

tgt gcc gta ggc gat atg gtc tgt gac ggc acc ttg atc gtg ggg ccc      576
Cys Ala Val Gly Asp Met Val Cys Asp Gly Thr Leu Ile Val Gly Pro
            180                 185                 190

gcc cat ttc act tac ctg ggt aac acc ggc gaa gca act cag ttc ttg      624
Ala His Phe Thr Tyr Leu Gly Asn Thr Gly Glu Ala Thr Gln Phe Leu
        195                 200                 205

ctt ggt aag ctg agt gct tcg tct tcg tct tcg tct tca tcc ggt tct      672
Leu Gly Lys Leu Ser Ala Ser Ser Ser Ser Ser Ser Ser Ser Gly Ser
    210                 215                 220

tcg gat act tcg tcc gca tca aca tcc gct gct gct gac tct tct tcg      720
Ser Asp Thr Ser Ser Ala Ser Thr Ser Ala Ala Ala Asp Ser Ser Ser
225                 230                 235                 240

tct tcg tct tct tca tcg tcg cct ttt ggg aat ctt ggt aat ctc ttt      768
Ser Ser Ser Ser Ser Ser Ser Pro Phe Gly Asn Leu Gly Asn Leu Phe
                245                 250                 255

ggt gga ctc tag                                                     780
Gly Gly Leu
```

<210> 6
<211> 525
<212> DNA
<213> Aspergillus oryzae

<220>
<221> CDS
<222> (1)..(525)

<400> 6

```
atg ctt gcc aaa cac gtc ctt gct gtc ctt ctg tct gtt ggc gct tcc       48
Met Leu Ala Lys His Val Leu Ala Val Leu Leu Ser Val Gly Ala Ser
1               5                   10                  15

gcc att cct ttc gac aag cga gat gca tcc gct gtc ctc gct gat ttt       96
Ala Ile Pro Phe Asp Lys Arg Asp Ala Ser Ala Val Leu Ala Asp Phe
            20                  25                  30

aac aca ctc tca acc gac ctg tcg gct ctc ggc tct gct att tcg agc      144
Asn Thr Leu Ser Thr Asp Leu Ser Ala Leu Gly Ser Ala Ile Ser Ser
        35                  40                  45

ttc gat gga acg ctc aat ggt gcc ttg ggc gtc cag cag aag gaa ggc      192
Phe Asp Gly Thr Leu Asn Gly Ala Leu Gly Val Gln Gln Lys Glu Gly
    50                  55                  60
```

```
caa gta gag acg gcg ttg aag caa acc gtc agc gat gtg aaa gcg tct      240
Gln Val Glu Thr Ala Leu Lys Gln Thr Val Ser Asp Val Lys Ala Ser
65                  70                  75                  80

act gcg ttc agt gct gct gac agc aca agc gtg acc aat gct gtg act      288
Thr Ala Phe Ser Ala Ala Asp Ser Thr Ser Val Thr Asn Ala Val Thr
                85                  90                  95

ggt ctg gag cct agc att gtg aac gtt ctc aac gat ctc gtt tcc aag      336
Gly Leu Glu Pro Ser Ile Val Asn Val Leu Asn Asp Leu Val Ser Lys
            100                 105                 110

aaa tcc ggt ttt gac tct gtt ggc gtt acc agc att gtc gta tcg gat      384
Lys Ser Gly Phe Asp Ser Val Gly Val Thr Ser Ile Val Val Ser Asp
        115                 120                 125

ctc aac tcc ctc cat gat ctt act ggc cag ctg tca act gag ctc cag      432
Leu Asn Ser Leu His Asp Leu Thr Gly Gln Leu Ser Thr Glu Leu Gln
    130                 135                 140

tcg aag gtc act tcg ggt gac gca tcc act att tct gat gag gct gcg      480
Ser Lys Val Thr Ser Gly Asp Ala Ser Thr Ile Ser Asp Glu Ala Ala
145                 150                 155                 160

cga ctt gat gcg gaa tac aag aag gcc atc gct gcc tat tcc tag          525
Arg Leu Asp Ala Glu Tyr Lys Lys Ala Ile Ala Ala Tyr Ser
                165                 170
```

<210> 7
<211> 561
<212> DNA
<213> Aspergillus oryzae

<220>
<221> CDS
<222> (1)..(561)

<400> 7

```
atg cac ttc cac cgt ctc ctg gtc ttg gcc gcc ggg ctc ctg aca acg       48
Met His Phe His Arg Leu Leu Val Leu Ala Ala Gly Leu Leu Thr Thr
1               5                   10                  15

gca aca tca gca ccc acc gaa ctc ttc aaa cgc gat gcc gca ggc gta       96
Ala Thr Ser Ala Pro Thr Glu Leu Phe Lys Arg Asp Ala Ala Gly Val
            20                  25                  30

gta gat gct gtg gca gag atc gct gac aaa atg acg acc cta aat acc      144
Val Asp Ala Val Ala Glu Ile Ala Asp Lys Met Thr Thr Leu Asn Thr
        35                  40                  45

aca gtc acg ggt tac caa ggc gga gtg ctc gga acc gga aca gcc ctg      192
Thr Val Thr Gly Tyr Gln Gly Gly Val Leu Gly Thr Gly Thr Ala Leu
    50                  55                  60

aag att gag ttc cag tcc atc caa ctc agc cac gcc ctg aaa gat gcc      240
```

```
Lys Ile Glu Phe Gln Ser Ile Gln Leu Ser His Ala Leu Lys Asp Ala
65                  70                  75                  80

atc tcg acc act gaa gat tcc caa aac ttc acc ggc gat gag tcc aat      288
Ile Ser Thr Thr Glu Asp Ser Gln Asn Phe Thr Gly Asp Glu Ser Asn
                85                  90                  95

aag gtt gcc gct gct ttt att gat ctg caa ccc aag atc tct tca act      336
Lys Val Ala Ala Ala Phe Ile Asp Leu Gln Pro Lys Ile Ser Ser Thr
            100                 105                 110

ctc aat aac att gtc tcc aag aaa cct cag ttc gac aca ggg ctc ctc      384
Leu Asn Asn Ile Val Ser Lys Lys Pro Gln Phe Asp Thr Gly Leu Leu
        115                 120                 125

ggc atc ggg tcc gtc tca ttc ttg gtc aag tgg aac ttg caa cag gag      432
Gly Ile Gly Ser Val Ser Phe Leu Val Lys Trp Asn Leu Gln Gln Glu
    130                 135                 140

aag gac ttg tcg gcg gac ttg ggg cag gct gtt gtt gct aag ctg gcg      480
Lys Asp Leu Ser Ala Asp Leu Gly Gln Ala Val Val Ala Lys Leu Ala
145                 150                 155                 160

gag ccg tat gcc tcg gtt gcg cca ttg ctg aac gat cag att gcc gct      528
Glu Pro Tyr Ala Ser Val Ala Pro Leu Leu Asn Asp Gln Ile Ala Ala
                165                 170                 175

gct ttt gag aag gca ctt gct gct tat aat tag                          561
Ala Phe Glu Lys Ala Leu Ala Ala Tyr Asn
            180                 185
```

<210> 8
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized primer for pNG-enoP-hyp

<400> 8
attcgcgaaa atggtagctc gagga 25

<210> 9
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized primer for pNG-enoP-hyp

<400> 9
gtagaatcac gaatgagacc tttgacgacc 30

<210> 10
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized primer for pNG-enoP

<400> 10
gtagaatcac gaatgagacc tttgacgacc 30

<210> 11
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized primer for pNG-enoP

<400> 11
gttagtcgac tgaccaattc cgcag 25

<210> 12
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer used in the cloning of a genomic DNA
comprising a gene of the degrading enzyme

<400> 12
gcacaaggac tgtttgaaca agctgtttcc 30

<210> 13
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer used in the cloning of a genomic DNA
comprising a gene of the degrading enzyme

<400> 13
ccaggcagac aagatctccc acggcgcaat 30

<210> 14
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for spore PCR

<400> 14
tgcagtggcg gatccggtgg ac 22

<210> 15
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for spore PCR

<400> 15
gtagaatcac gaatggagcc tttgacgacc 30

<210> 16
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the spore of pPTR-gla-hyp

<400> 16
attcgcgaaa atggtagctc gagga 25

<210> 17
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the spore of pPTR-gla-hyp

<400> 17
ctgtgtcccg tatgtaacgg tg 22

<210> 18
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for spore of pPTR-enoP-hyp

<400> 18
attcgcgaaa atggtagctc gagga 25

<210> 19
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for spore of pPTR-enoP-hyp

<400> 19
ctgtgtcccg tatgtaacgg tg 22

<210> 20
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the spore of pNG-amy

<400> 20
ggttcgcttc gtaagtcttc cctt 24

<210> 21
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the spore of pNG-amy

<400> 21
gtagaatcac gaatgagacc tttgacgacc 30

<210> 22
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer used in the cloning of hyp B

<400> 22
caacccaacc gtcgacatga agttct 26

<210> 23
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer used in the cloning of hyp B

<400> 23
gccaaatggc gtctagatta cagacc 26

<210> 24
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the spore of pNG-gla-hyp B

<400> 24
caacccaacc gtcgacatga agttct 26

<210> 25
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primers for the spore of pNG-gla-hyp B

<400> 25
gtagaatcac gaatgagacc tttgacgacc 30

<210> 26
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer used in the cloning of hydrophobin-315

<400> 26
ctgcttcctt tgtcgacatg aaggt 25

<210> 27
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer used in the cloning of hydrophobin-315

<400> 27
tcaatggtct agaagccctt ggc 23

<210> 28
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the spore of pNG-gla- hydrophobin-315

<400> 28
ctgcttcctt tgtcgacatg aaggt 25

<210> 29
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the spore of pNG-gla- hydrophobin-315

<400> 29
gtagaatcac gaatgagacc tttgacgacc 30

<210> 30
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide based on PBS-degrading enzyme and Aspergillus fumigatus

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is t, c, a, or g

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is t, c, a, or g

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is t or c

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a or g

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is t, c, a, or g

<220>
<221> misc_feature
<222> (18)..(18)
<223> n is t, c, a, or g

<400> 30
gtngcntgnc anggngtn 18

<210> 31
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide based on PBS-degrading enzyme and Aspergillus fumigatus

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is g or a

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is c, t, g, or a

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is c, t, g, or a

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is c, t, g, or a

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is c, t, g, or a

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is t, g, or a

<400> 31
ntanccnccn gcnacnat 18

<210> 32
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the PBS-degrading enzyme

<400> 32
tgcagtggcg gatccggtgg ac 22

<210> 33
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the PBS-degrading enzyme

<400> 33
gaccggatgg atcccgaaaa tttatcc 27

<210> 34
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the PBS-degrading enzyme analogue

<400> 34
ggcagcaggg gatcccatcg ctg 23

<210> 35
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the PBS-degrading enzyme analogue

<400> 35
cgtagcccac actcggatcc taagctgac 29

<210> 36
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the PBS-degrading enzyme analogue

<400> 36
ggcggctgcg gatccagtag atatc 25

<210> 37
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the PBS-degrading enzyme analogue

<400> 37
cagttcaggg ggatcctata gagtcc 26

<210> 38
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Sequence at the N-end of a biodegradable plastic-binding protein

<400> 38

Asp Ala Ser Ala Val Leu Ala Asp Phe Asn Thr Leu Ser Thr
1 5 10

<210> 39
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized primer derived from sequences of Aspergillus fumigatus and Aspergillus oryzae

<400> 39
atgctcgcca agcacgtc 18

<210> 40
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized primer derived from sequences of Aspergillus fumigatus and Aspergillus oryzae

<400> 40
ggccttcttg tactcggc 18

<210> 41
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized primer derived from sequences of Aspergillus fumigatus and Aspergillus oryzae

<400> 41
gacgcaatct ccaccac 17

<210> 42
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized primer derived from sequences of Aspergillus fumigatus and Aspergillus oryzae

<400> 42
tcaaacgcat ccgcaatctg 20

<210> 43
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer targeted to Aspergillus oryzae

<400> 43
cttgcattca agtcgacctg aacac 25

<210> 44
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer targeted to Aspergillus oryzae

<400> 44
ctattgaact atgcttctag aaggcctaat c 31

<210> 45
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer used in the transformation of Aspergillus oryzae

<400> 45
cttgcattca agtcgacctg aacac 25

<210> 46
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer used in the transformation of Aspergillus oryzae

<400> 46
gtagaatcac gaatggagcc tttgacgacc 30